

AGENDA
2018 Virginia Geological Research Symposium
Division of Geology and Mineral Resources
900 Natural Resources Drive, Charlottesville, VA 22903
Thursday, April 19, 2018

- | | |
|--------------------|--|
| 8:00 – 8:30 a.m. | Registration and “Meet and Greet” with refreshments |
| 8:30 – 8:40 a.m. | The State of the State Geological Survey – <i>David Spears, DGMR</i> |
| 8:40 – 9:40 a.m. | Technical Session #1 |
| 8:40 – 9:00 | Bedrock control on marine sediment deposition and preservation in the easternmost Piedmont: results from 1:24,000-scale geologic mapping in the Petersburg, Virginia area – <i>Marcie Occhi, Division of Geology and Mineral Resources</i> |
| 9:00 – 9:20 | Tunnel Vision: Geology of the historic Blue Ridge Tunnel at Rockfish Gap, Virginia – <i>Katherine Lang, College of William and Mary</i> |
| 9:20 – 9:40 | A student-based exposition of climate change impacts on Virginia’s coasts (as told by the stakeholders) – <i>Mike Fenster, Randolph-Macon College</i> |
| 9:40 – 10:00 a.m. | Break |
| 10:00 – 11:00 a.m. | Technical Session #2 |
| 10:00 – 10:20 | The Blue Ridge-Piedmont boundary in Virginia: a transpressional frontier – <i>Chuck Bailey, College of William and Mary</i> |
| 10:20 – 10:40 | Natural Bridge, Virginia: Complementary geological methods in the absence of drilling – <i>Brian Bruckno, Virginia Department of Transportation</i> |
| 10:40 – 11:00 | “Find My Map!” – A new web app from DGMR – <i>Anne Witt, Division of Geology and Mineral Resources</i> |
| 11:00 a.m. – noon | Breakout Sessions |
| | <ul style="list-style-type: none"> • Breakout #1 – Preparing for Earth Science Week, “Earth as Inspiration” – <i>Matt Heller</i> • Breakout #2 – Geologic Map of Virginia 2020 – <i>David Spears, Anne Witt</i> • Breakout #3 – To be announced |
| Noon – 1:00 p.m. | Lunch on your own – See list of local restaurants |
| 1:00 – 2:30 p.m. | Poster Session (see list of posters on p. 2) |

- 2:30 – 3:30 p.m. **Technical Session #3**
- 2:30 – 2:50 Prettier pictures: best practices for improved geology visualizations – *Callan Bentley, Northern Virginia Community College*
- 2:50 – 3:10 Spatially analyzing aquifer nitrates + nitrites as N, Fairfax County, VA – *Paul Shannon, Fairfax County Health Department*
- 3:10 – 3:30 Thirty years of dissolved phosphorous dynamics in the Chesapeake Bay Basin: Why geology matters – *Karen Rice, U.S. Geological Survey*
- 3:30 – 3:50 p.m. Break with refreshments
- 3:50 – 4:50 p.m. **Technical Session #4**
- 3:50 – 4:10 Case histories of mine shaft subsidence of abandoned coal mines in the Richmond Triassic Basin, Virginia – *Kenneth Megginson and Steve Pond, Schnabel Engineering*
- 4:10 – 4:30 Visualizing fold-thrust belt structure, stratigraphy, and surficial evolution using the unusual combination of Google Earth, ArcGIS, and Photoshop– *Philip Prince, Division of Geology and Mineral Resources*
- 4:30 – 4:50 Improving the availability and quality of surficial geologic maps in Virginia – *Matt Heller, Division of Geology and Mineral Resources*
- 4:50 p.m. **Summary and wrap-up**

Posters

Title	Presenter	Affiliation
Geochronology and geochemistry of a felsic dike, Ivy Creek Natural Area, Charlottesville, VA	Gillian Greenberg	JMU
Provenance of the Cretaceous Potomac Group from detrital zircon analysis, central-eastern Virginia	Mark Carter	USGS
STRUCTURAL INTERPRETATION OF DMR PUBLICATION NO. 73, PART C, Geologic Framework of offshore Virginia with Emphasis on Petroleum geology	Frank Jacobeen	Consultant
Fourier analysis of Brachiopods: Updates to the fossil ID app (live demo)	William Schmachtenberg	Ferrum College/Franklin County High School